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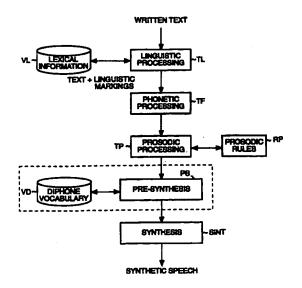
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(54) Method of speech synthesis by means of concatenation and partial overlapping of waveforms

Method for speech signal synthesis by means of time concatenation of waveforms representing elementary units of speech signal, in which: at least the waveforms associated to voiced sounds are subdivided into a plurality of intervals, corresponding to the responses of the vocal duct to a series of excitation impulses of the vocal cords, synchronous with the fundamental frequency of the signal; each interval is subjected to a weighting; the signals resulting from the weighting are replaced with a replica thereof shifted in time by an amount that depends on a prosodic information; and the synthesis is carried out by overlapping and adding the shifted signals. In each interval of original signal to be reproduced in synthesis, an unchanging part is identified, which contains the fundamental information and which is reproduced unaltered in the synthesized signal, and the operations of weighting, overlapping and adding involve only the remaining part of the interval.





EUROPEAN SEARCH REPORT

Application Number EP 95 10 7944

Category	Citation of document with i of relevant pa	ndication, where appropriate, assages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CL6)
A	on spectral distort speech synthesis" INTERNATIONAL CONFE LANGUAGE PROCESSING	EXCITATION CONTROL based FRENCE ON SPOKEN FRENCE ON SPOKE	1	G10L5/04
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A .	HIROKAWA ET AL.: "Segment selection and pitch modification for high quality speech synthesis using waveform sigments" INTERNATIONAL CONFERENCE ON SPOKEN LANGUAGE PROCESSING (ICSLP) 1990, vol. 1, 18 - 22 November 1990, KOBE, JP, pages 337-340, XP000503378 * paragraph 3 *		1	
<u></u>	The present search report has b	een drawn up for all claims		
	Place of search THE HAGUE	Date of completion of the search 22 September 1997	Lai	Examiner nge, J
X : part Y : part doct A : tech O : non	CATEGORY OF CITED DOCUME icularly relevant if taken alone icularly relevant if combined with an ument of the same category inological background—witten disclosure readiate document	NTS T: theory or principl E: earlier patent doc after the filing da	e underlying th sument, but pub ite in the application or other reasons	e invention dished on, or n